

We claim:

1. A method for recording or reproducing data to/from an optical recording medium,
through an interface from optical recording/reading device to host device, comprising:
receiving a real time write command from the host device if a real time data is
generated;
5 determining a presence of a defective block listed on defect list of defect management
area in a writing area designated by the write command prior to writing the data;
returning a position information of a defective block to host device if the defective
block is present; and
receiving new write command from the host device to write the data on the optical
10 recording medium.

2. A method of claim 1, further comprising:
newly constructing a file structure based upon the returned position information of
the defective block.

3. A method of claim 1, wherein the position information of defective blocks is listed
in Secondary Defect List(SDL) of Defect management Area.

4. A method of claim 1, wherein the new write command is generated such that data
is not written on defective blocks.

5. A method of claim 4, wherein the new write command is divided by the defective block based upon the position information listed in SDL.

6. A method of claim 1, wherein the defective block has Logical Sector Number(LSN) as it.

7. A method for recording or reproducing data to/from an optical recording medium, through an interface from optical recording/playback device to host device, comprising:

determining whether a data to be written or read is real time data;

requesting a list of defective block recorded on a defect management area to the optical recording/reproducing device before transferring a writing/reading command, if the data is real time data; and

transferring a writing/reading command based on the list of defective block received from the recording/playback device,

wherein the writing/reading command is divided by the defective area based on the list of defective block.

8. A method for recording or reproducing data to/from an optical recording medium, , comprising:

receiving a real time write command from controller if a real time data is generated;

determining a presence of a defective block listed on defect list of defect management area in a writing area designated by the write command prior to writing the data;

returning a position information of a defective block to the controller if the defective block is present; and

receiving new write command from the controller to write the data on the optical recording medium.

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9. A method of claim 8, further comprising:

newly constructing a file structure based upon the returned position information of the defective block.

10. A method of claim 8, wherein the position information of defective blocks is listed in Secondary Defect List(SDL) of Defect management Area.

11. A method of claim 8, wherein the new write command is generated such that data is not written on defective blocks.

12. A method of claim 11, the new write command is divided by the defective block based upon the position information listed in SDL.

13. A method of claim 8, wherein the defective block has Logical Sector Number(LSN) as it.

14. A method for recording or reproducing data to/from an optical recording medium, comprising:

(a) reading information on a defective area if a data to be written in a real time is generated,

5 (b) writing the data to be written in real time excluding the defective area read in step
(a); and

(c) writing an file architecture on the optical recording medium with reference to the
information on the defective area upon completion of writing of the data to be written in real
time,

10 wherein the file architecture written out for one file is separated by the defective area,
and the defective area is not written on the file architecture.

15. A method of claim 14, wherein the file architecture is ICB(Information Control
Block) in UDF(Universal Disk Format) system.

16. A method for recording or reproducing data to/from an optical recording medium,
comprising:

(a) returning information on a defective block present in a writing area designated by
the write command to the controller upon reception of the write command for making a real
5 time recording from the controller;

(b) generating a new write command and providing to the recording/playback device
to/from an optical disk when the information on the defective block is returned in the step
(a); and

(c) writing the data in response to the write command provided in the step (b),
10 wherein file architecture written out for one file is separated by the returned defective
area when the writing for one file is finished in the step (c), and the defective area is not
written on the file architecture.

17. A method of claim 16, wherein the file architecture is ICB(Information Control Block) in UDF(Universal Disk Format) system.